Panasonic
ideas for life

2008
LUMIX G1

Innovation matters.
EVERYTHING MATTERS.

LUMIX G
MICRO SYSTEM

D-SLReinvented 01.11.08

The New-Generation Digital Interchangeable Lens Camera

LUMIX G™ MICRO SYSTEM

The LUMIX G Micro System will change the way you see – and enjoy –
the digital interchangeable lens camera.
It does so with a collection of features that put enormous photographic power
in a palm-sized camera with interchangeable lens.
The Micro Four Thirds System standard for high quality and wide compatibility.
Full-time Live View for setting up the perfect shot.
The unique iA mode for capturing stunning photos with all the ease of a compact digital camera.
The LUMIX G Micro System is a camera you'll love from day one.
It's easy to take with you. It makes every day a new opportunity for discovery.
It lets you capture the emotion behind the moment.
It gives you the freedom to express yourself visually. And most of all,
it makes photography more fun than you've ever imagined.
The LUMIX G Micro System will forever change the way you see the world around you,
and the role that photography plays in your life.

Actual Size

WHY SHOULD D-SLR CAMERAS BE COMPLICATED?

D-SLReinvented 01.11.08

Live View Finder makes shooting through the viewfinder more comfortable.

iA mode helps you get beautiful shots anytime, anyplace.

Free-angle LCD allows easy shooting at high angles or low angles.

Advanced AF helps make focusing quick, easy and precise.

Full-Time Live View Lets You Take It Easy

LUMIX G™ MICRO SYSTEM

Full-time Live View lets you see exactly what the camera sees.

Full-time Live View shows you - before you shoot - how the settings change the photo.

Taking photos is a lot more fun when you don't have to struggle to get perfect images. With the LUMIX G Micro System – and its Full-time Live View – using a digital interchangeable lens camera is now as easy as using a digital compact camera. The LUMIX G Micro System can display guidelines and a histogram on the LCD and Live View Finder along with the image composition. But more than that, you can see through them – before pressing the shutter button – how the exposure compensation and white balance adjustment will affect the photo. You can even see how adjusting the aperture and shutter speed settings will affect the photo. In other words, the LUMIX G Micro System gives you easy Live View shooting that simply isn't possible with conventional digital SLR cameras.

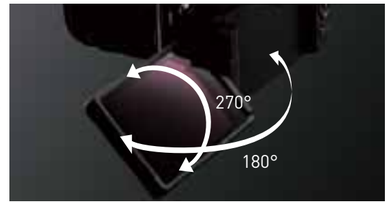
Real-time histogram

Movable guidelines

Free-angle LCD allows easy shooting at high angles or low angles.

Bright and easy-to-see free-angle LCD

The large 3.0-inch LCD rotates 180º horizontally and 270º vertically, making it easy for you to capture dynamic shots from extreme angles without getting into an awkward position. And when the lighting around you changes, the LCD backlighting level automatically changes too, so you get comfortable, easy-on-the-eyes viewing at all times.



Shoot any way you want to shoot. High angle, low angle, side angle – it's easy with the Lumix G Micro System.

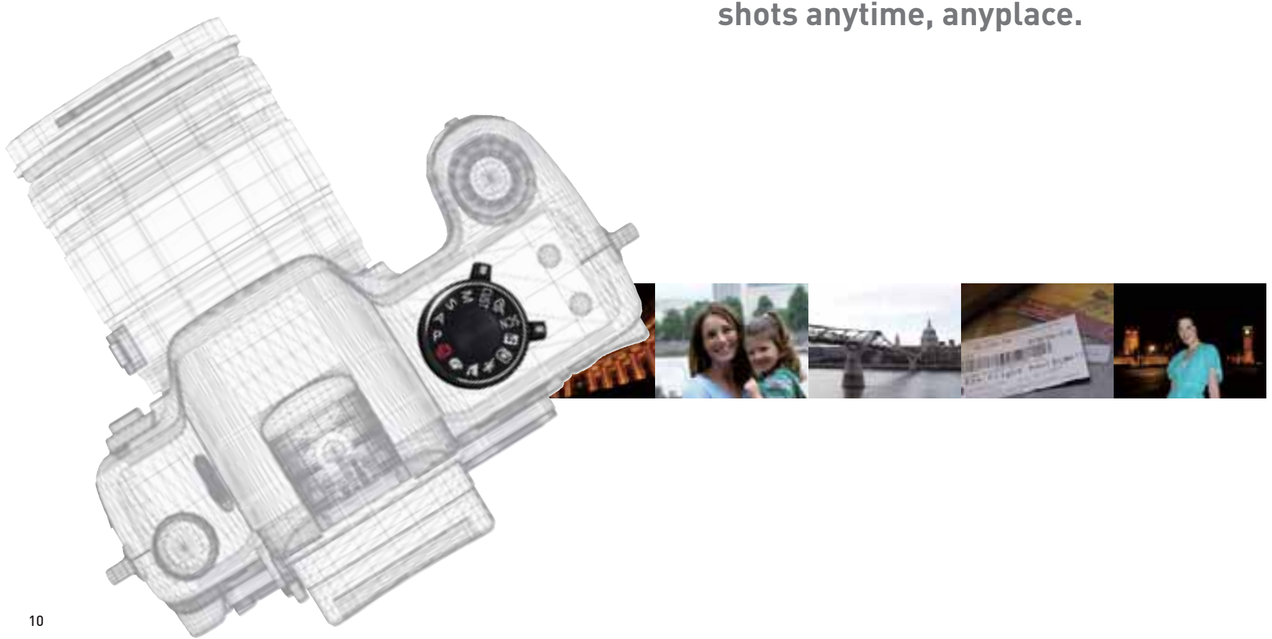
High angle shots over a crowd

Shots around obstacles or barriers, where an ordinary viewfinder just won't work

Tripod shots without having to crouch

Low angle shots near ground level

iA mode helps you get beautiful shots anytime, anyplace.



iA mode can make all the right settings – automatically

If you've resisted buying a digital SLR camera because you think they're hard to use, your wait is over. Meet the LUMIX G Micro System, with iA (Intelligent Auto) mode. A big hit in LUMIX compact digital cameras, iA mode activates six detection and compensation functions that work automatically, leaving you free to just aim and shoot. It's easier to get a beautiful shot any time, any place.

INTELLIGENT AUTO TECHNOLOGY

Shake detection – MEGA O.I.S.

MEGA O.I.S. OFF

MEGA O.I.S. ON

Gyrosensors built into the lens detect hand-shake and an O.I.S. shifts to compensate. Assisting you in getting those clear, beautiful, blur-free photos.

Motion detection – Intelligent ISO Control

Normal ISO Auto

Intelligent ISO Control

If the subject moves as you snap the shot, the camera automatically adjusts the ISO sensitivity and shutter speed to help prevent subject blur.

Light detection – Intelligent Exposure

Intelligent Exposure

The camera can correct the brightness in parts of the image that are too dark due to insufficient lighting, backlighting or use of the flash.

Face detection – Face Detection AF/AE

Face Detection AF/AE

The camera detects when there are faces in the frame and adjusts the focus and exposure to capture them properly. This allows you to shoot beautiful portraits without any hassle.

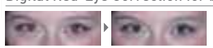
Scene detection – Intelligent Scene Selector

The camera automatically selects whichever of five Scene modes – Portrait, Night Portrait, Scenery, Night Scenery, and Close-up – best suits the situation.

Subject detection – AF Tracking

Once you've focused on a subject, AF Tracking keeps the subject in focus – even if it moves – until you press the shutter button.

Digital Red-Eye Correction for beautiful night portraits



The red-eye correction in the built-in flash and the camera's image processing circuit work together to reduce red-eye when you're using the flash to take shots of people.

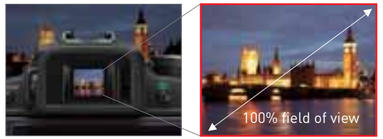
Live View Finder makes shooting through the viewfinder more accurate and comfortable.

Live View Finder – an electronic viewfinder complete with Full-time Live View

You've never looked into a viewfinder like this one. Developed by Panasonic for the LUMIX G Micro System, this high-performance electronic viewfinder boasts a Full-time Live View function that converts the optical viewfinder unit into a digital form. You experience a new level of shooting convenience through the high-performance viewfinder that is simply not possible with optical viewfinders of the past.

100% field of view with high resolution

The LUMIX G Micro System's Live View Finder has the large 1.4x (0.7x*) magnification and 100% field of view of the optical viewfinders on high-end digital SLR cameras. This, plus the 1,440,000-dot equivalent resolution, makes it easy to shoot the exact image the camera sees. *35 mm equivalent.



Eye sensor: Live View Finder switches on when you look into it

When you look into the viewfinder, a sensor automatically turns the Live View Finder on and the LCD off. You enjoy smoother, easier shooting without having to switch the setting of the display.

Freely customizable information display

Customize the camera to fit your shooting preference by changing the display style or switching to a full-screen display. The LUMIX G Micro System also features the Quick Menu that's popular on LUMIX compact digital cameras, so you can make a variety of settings without taking your eye from the Live View Finder.

Advanced AF helps make focusing quick, easy and precise.

Advanced contrast AF helps make Full-time Live View even more effective

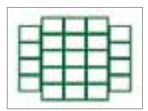
To optimize the use of Full-time Live View, the LUMIX G Micro System uses contrast AF rather than the conventional phase difference AF. This makes it possible to offer functions like Face Detection AF and AF Tracking that digital SLR cameras with phase difference AF can't match.

AF Tracking can keep the subject in focus – even if it moves

Once you've focused on a subject, the AF Tracking function keeps the focus locked on that subject – even if the subject moves – until you press the shutter button. This helps you get clear, sharp, focused photos even when shooting kids or pets that won't hold still.

23 AF areas cover more of the frame

The auto focus system uses 23 areas all around the frame to optimize the focusing for the scene you're shooting. This makes it easier to frame a shot when you don't know exactly where the subject will appear, because you can simply leave the focusing to the camera.



*This is a simulated image. All 23 AF areas are not simultaneously displayed in fact.

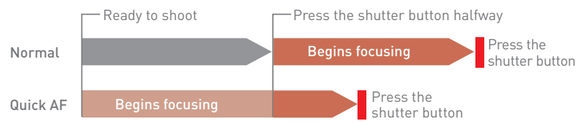
Versatile 1-area auto focus for finer focusing precision

When using 1-area AF mode, you can move the auto-focusing area in the frame. You can also change the size of focus area to Spot, Normal, L, or XL to fine-tune the focusing in complicated shooting compositions.

Quick AF: Focusing starts as soon as you aim the camera

The camera begins focusing the instant it determines you're in a shooting stance. This system focuses quicker than the usual method of pressing the shutter button halfway, so you're ready sooner to capture the moment.

*The focus speed may be slower in dark surroundings.



WHY SHOULD D-SLR CAMERAS BE BULKY?

D-SLReinvented 01.11.08

Micro Four Thirds – the extended digital interchangeable lens camera system standard

Unique LUMIX technologies render exquisite images

Micro Four Thirds: Exquisite Beauty in a Smaller Package

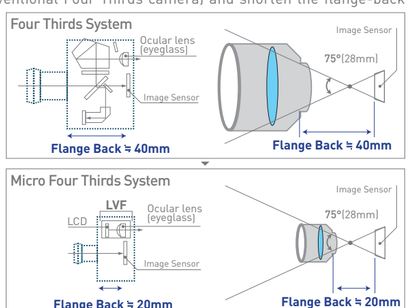
LUMIX G™ MICRO SYSTEM

Micro Four Thirds – the extended digital Interchangeable lens camera system standard

The open standard that led to the mirror-less body

The LUMIX G Micro System adopts the Micro Four Thirds System standard, developed as an extended version of the Four Thirds System standard for digital camera systems. Using this standard, and developing a camera body that eliminates the mirror box and optical viewfinder unit, the lens mount outer diameter was reduced by about 6 mm (compared with the conventional Four Thirds camera) and shorten the flange-back distance* by about half. Removing the mirror box also makes for smoother operation. The result is a digital interchangeable lens camera that's both extremely compact and highly mobile. The LUMIX G Micro System is a camera that you can take anywhere – and that, in turn, can take you as far as you want to go.

*The distance between the lens mount and image sensor.



Structure image

•Four Thirds, Micro Four Thirds and Micro Four Thirds Logo marks are trademarks or registered trademarks of Olympus Imaging Corporation.

LUMIX G lenses: Superior portability, superior rendering

These interchangeable lenses, designed exclusively for the Micro Four Thirds cameras, brings out the full potential of the 4/3-type image sensor. For instance, some aspherical lenses and ED lenses can ensure the impressive image rendering even in the smaller size than the Four Thirds lens. Also, as a prerequisite for Full-time Live View shooting, all lenses support contrast AF.

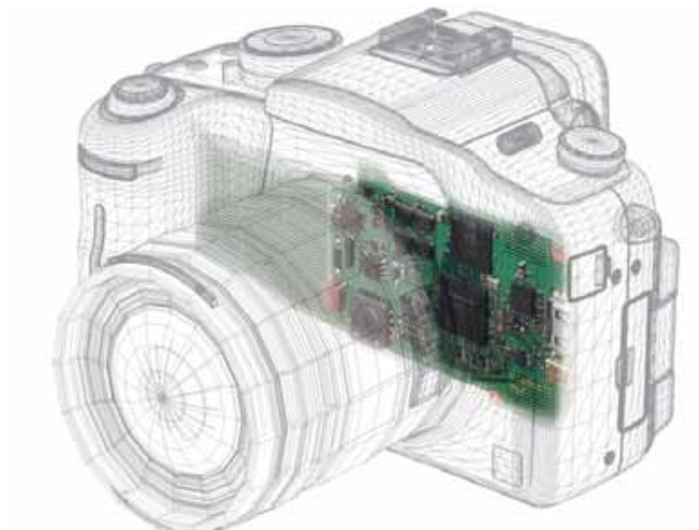
LUMIX G VARIO 14-45mm/ F3.5-5.6 ASPH./MEGA O.I.S

LUMIX G VARIO 45-200mm/ F4.0-5.6/MEGA O.I.S

Panasonic's renowned MEGA O.I.S.

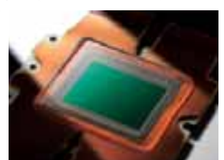
The LUMIX G lenses incorporate Panasonic's MEGA O.I.S., the advanced optical image stabilization system that has highly proven in LUMIX digital cameras. In the LUMIX G lenses, efficient stabilization elaborated by a special integrated LSI that processes output from the gyrosensors, which operate 4,000 times per second. This enhanced system helps achieve an exceptional hand-shake compensation performance.

Unique LUMIX technologies render exquisite images.



Live MOS sensor - higher image quality, lower power consumption

The 4/3-type 12-megapixel Live MOS sensor featured in the LUMIX G Micro System offers the best of both worlds – the superior image quality of a CCD sensor, and the lower power consumption of a CMOS sensor. New technology that makes it possible to read 4 channels of data simultaneously also helps the LUMIX G Micro System deliver 60 frame-per-second Full-time Live View images, while faithfully reproducing high-resolution images with fine detail and rich gradation.

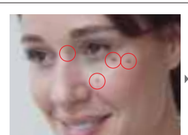


Venus Engine HD – next-generation digital signal processing

Two CPUs give the Venus Engine HD exceptionally advanced processing capabilities. This sophisticated LSI features effective noise reduction even at high ISO sensitivity levels. The Venus Engine HD also reproduces delicate color nuances faithfully with independent gradation control for each of the R, G and B colours. Additionally, it supports the Live View function, resulting in the display of smooth images at 60 fps. HDMI output support is also a feature of the Venus Engine HD.

Dust reduction system protects the image sensor

If dust or other foreign matter gets inside the camera when you're changing lenses, it could cling to the image sensor and show up as a spot in your photos. The LUMIX G Micro System helps eliminate this possibility by placing a Supersonic Wave Filter in front of the Live MOS sensor. Vibrating around 50,000 times per second, the filter repels dust and other particles and helps maintain superb image quality.



WHY SHOULD ALL D-SLR CAMERAS BE BLACK?

D-SLReinvented 01.11.08

Your imagination is virtually unlimited.
So is your choice of lenses.

A camera body that lets you express yourself with colour.

Functions that make it easier to create distinctive, artistic images.

High Definition that Goes Beyond Beauty – All the Way to Emotion

LUMIX G™ MICRO SYSTEM

A camera body that lets you express yourself with colour.

Colour selection: Unique in more ways than one

Advanced technologies and performance set the LUMIX G Micro System apart from other cameras. Its choice of body colours does too. All models feature a textured coating and, in addition to authentic black, they come in colours like red and blue that add to the fun of owning this unique digital SLR camera. Choose the colour that best expresses who you are, and make the LUMIX G Micro System a part of your everyday life.

Functions that make it easy to create distinctive, artistic images.

Get expressive. With high-resolution images, it's easy.

The real joy of a digital SLR camera is that it gives you control over the aperture and shutter speed, so you have the power not just to capture an image likeness, but to create an image that you envision in your mind. The LUMIX G Micro System makes that creative process easier with its outstanding Full-time Live View, which lets you see how the aperture and shutter speed affect the image. With other cameras you don't know how a photo will actually look until after you take the shot – when it's already too late. With the LUMIX G Micro System, you can adjust the settings until the image is just the way you want it.

Aperture adjustment: In Preview mode, you can display a preview of the image to check the depth of field before you shoot.

Shutter speed adjustment: In Preview mode, you can even see how adjusting the shutter speed settings will affect the photo.

Give free rein to your creativity – My Colour mode

In My Colour mode you can freely adjust the colour, brightness and saturation parameters, while checking the Full-time Live View image to see how those adjustments affect the picture. This makes it easier and more fun to create interesting, expressive images. Adjust the settings that best suit the shooting conditions and your expressive intent, and then enjoy your own photography.

The beauty of high-definition motion images.

Capture HD (high-definition) motion images too

The LUMIX G Micro System is planning to break new ground soon. It not only lets you shoot HD photos that literally fill a 16:9 HDTV screen, it also lets you shoot progressive HD motion images*. Enjoy a level of image-shooting quality and versatility that brings you a whole new world of imaging.

*Motion-image recording feature is not offered on the DMC-G1.

HD output–ready for the HDTV age

Just connect the LUMIX G Micro System to an HDTV and you're ready for high-definition viewing. If your TV is HDMI compatible, a single HDMI mini cable (optional) is all you need. When using a Panasonic VIERA TV, you can also operate the LUMIX G Micro System with the VIERA remote control for even easier viewing*.

*Not all operations are possible.

•HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Your imagination is unlimited.
So is your choice of lenses.

The Four Thirds System standard opens up a world of possibilities

The LUMIX G Micro System is compatible with any interchangeable lens that complies with the Four Thirds System standard.* This gives you access to the entire range of Four Thirds lenses. And a stream of new Micro Four Thirds lenses will be announced in the future, giving you a large, diverse line of high-performance lenses to add to your photographic toolbox. With the LUMIX G Micro System and the growing assortment of lenses becoming available, your expressive possibilities are unlimited.

*You need a mount adapter (available as an option) to use Four Thirds lenses. Lenses that are not compatible with the contrast AF function can be used with manual focusing. There are also some limitations to other functions. For details, see the following customer support site: **http://panasonic.jp/support/global/cs/dsc/index**

•Four Thirds, Micro Four Thirds and Micro Four Thirds Logo marks are trademarks or registered trademarks of Olympus Imaging Corporation.

MICRO FOURTHIRDS

2008	2009
•14-45mm F3.5-5.6 OIS •45-200mm F4.0-5.6 OIS	•7-14mm F4.0
	•20mm F1.7
	•14-140mm F4.0-5.6 OIS

Prototype models in the development stage

Accessories that give you more ways to enjoy the LUMIX G Micro System

External Flash
DMW-FL220* DMW-FL360 DMW-FL500

PL Filter
DMW-LPL52

MC Protector
DMW-LMC 52

ND Filter
DMW-LND 52

Mount Adapter
DMW-MA1

Battery Pack
DMW-BLB13**

DC Cable
DMW-DCC3

Carrying Case
DMW-CG1

Carrying Bag
DMW-BAG1

Shoulder Strap (Stylish)
DMW-SSTG1-A (Blue)
DMW-SSTG1-C (Beige)
DMW-SSTG1-R (Red)

Shoulder Strap (Woven)
DMW-SSTG2-W (White)

Shoulder Strap (Leather)
DMW-SSTG3-T (Brown)

HDMI mini Cable
RP-CDHM15
RP-CDHM30

Remote Shutter
DMW-RSL1

SD / SDHC Memory Card

Pro High Speed		High Speed	
32 GB*:	RP-SDV32G	12 GB*:	RP-SDM12G
16 GB*:	RP-SDV16G	6 GB*:	RP-SDM06G
8 GB*:	RP-SDV08G	4 GB*:	RP-SDM04G
4 GB*:	RP-SDV04G	2 GB*:	RP-SDM02G
2 GB*:	RP-SDV02G	1 GB*:	RP-SDR01G

*1 GB = 1 billion bytes. Usable capacity will be less.

*The release date may differ depending on the country. **The DMW-BLB13 comes with a function to check whether the battery and unit can be safely used together. •Batteries made by other companies which have been certified by Panasonic may be used with these units, but we offer no guarantee as to the quality, performance or safety of such batteries. •Exercise care when purchasing batteries. Many fake or imitation batteries have been found among those sold at unusually low prices and those which customers cannot check for themselves before purchasing. •Please confirm the latest information about batteries on the following website. http://panasonic.co.jp/pavc/global/cs/info/battery.html (This website is in English only.)

DMC-G1 Specifications

TYPE	Type	Digital interchangeable lens system camera
	Recording media	SD memory card, SDHC memory card, Multimedia card
	Image sensor size	17.3 x 13.0 mm
	Mount	Micro Four Thirds mount
IMAGE SENSOR	Type	Live MOS Sensor
	Total pixels	13.1 Megapixels
	Camera effective pixels	12.1 Megapixels
	Aspect ratio	4:3 (Horizontal : Vertical)
	Colour filter	Primary colour filter
	Dust reduction system	Supersonic wave filter
RECORDING SYSTEM	Recording file format	JPEG(Design rule for Camera File System, based on Exif 2.21 standard), RAW, DPOF corresponding
	Aspect ratio	4:3, 3:2, 16:9
	File size	4:3 Aspect Ratio: 4000 x 3000 pixels, 2816 x 2112 pixels, 2048 x 1536 pixels 3:2 Aspect Ratio: 4000 x 2672 pixels, 2816 x 1880 pixels, 2048 x 1360 pixels 16:9 Aspect Ratio: 4000 x 2248 pixels, 2816 x 1584 pixels, 1920 x 1080 pixels
	Image quality	RAW, RAW+Fine, RAW+Standard, Fine, Standard
	Colour space	sRGB, Adobe RGB
VIEWFINDER	Type	Live View Finder (1,440,000 dots equivalent)
	Field of view	Approx. 100%
	Magnification	Approx. 1.4x / 0.7x (35mm film camera equivalent) with 50mm lens at infinity; -1.0 m-1
	Eye point	Approx.17.5mm
	Diopter adjustment	-4.0 ~ +4.0 [m-1]
AUTO FOCUS	Type	Contrast AF system
	Focusing mode	AFs/AFc/MF
	AF mode	Face detection / AF Tracking / 23-area-focusing / 1-area-focusing
	AF detective range	EV 0-18 (ISO100)
	AF assist lamp	YES
	AF lock	AF/AE LOCK button or Shutter button halfway pressed in AFs mode
EXPOSURE CONTROL	Light metering system	144-zone multi-pattern sensing system
	Light metering mode	Intelligent Multiple / Center Weighted / Spot
	Metering range	EV 0-18 (F2.0 lens, ISO 100)
	Exposure mode	Program AE, Aperture Priority AE, Shutter Priority AE, Manual
	ISO sensitivity	Auto / 100 / 200 / 400 / 800 / 1600 / 3200 / Intelligent ISO
	Exposure compensation	1/3EV Step ±3EV
	AE lock	AF/AE LOCK button or Shutter button halfway pressed
	AE bracket	3,5,7 frame, in 1/3 or 2/3 EV Step, ±2 EV
WHITE BALANCE	White balance	Auto /Daylight / Cloudy / Shade / Halogen / Flash / White Set 1,2 / Colour temperature setting
	White balance adjustment	Blue/amber bias, Magenta/green bias
	Colour temperature setting	2500-10000K in 100K
	White balance bracket	3 exposures in blue/amber axis or in magenta/green axis
SHUTTER SYSTEM	Type	Focal-plane shutter
	Shutter speed	1/4000 ~ 60 and Bulb (up to approx. 4minutes)
	Self timer	2sec / 10sec / 10sec, 3 images
	Remote control	Remote control with bulb function by DMW-RSL1 (Optional)
SCENE MODE	Advanced SCN mode	Portrait (Normal/Soft Skin/Outdoor/Indoor/Creative) / Scenery (Normal/Nature/Architecture/Creative) / Sports (Normal/Outdoor/Indoor/Creative) / Close-up (Flower/Food/Objects/Creative) / Night Portrait (Night Portrait/Night Scenery/Illuminations/Creative)
	SCN mode	Sunset / Party / Baby 1,2 / Pet

BURST SHOOTING	Burst speed	3 frames/sec (High speed) or 2 frames/sec (Low speed)
	Number of recordable	7 pictures (when there are RAW file with the particular speed) Unlimited consecutive shooting (when there are no RAW file) (depending on memory card size, battery power, picture size, and compression)
BUILT-IN-FLASH	Type	TTL Built-in-Flash, GN11equivalent (ISO 100 Øm), Built-in Pop-up
	Built-in flash	Auto, Auto/Red-eye Reduction, Forced On, Forced On/Red-eye Reduction, Slow Sync., Slow Sync./Red-eye Reduction, Forced Off
	X-Sync speed	Less than 1/160 second
	Flash output adjustment	1/3EV Step ±2EV
	Flash synchronization	1st. Curtain Sync, 2nd Curtain Sync.
	Hot shoe	TTL Auto with FL360/FL500/FL220 (Optional)
LCD MONITOR	Type	Low temperature Polycrystalline TFT LCD
	Monitor size	Free-angle 3.0inch / 3:2 Aspect / Wide viewing angle
	Pixels	460K dots
	Field of view	Approx. 100%
LIVE VIEW	Digital zoom	2x, 4x
	Extra optical zoom	Max.2x (Not effective with full pixel recording. Magnification ratio depends on the recording pixels.)
	Other functions	Guide Lines (3 patterns) Real-time Histogram
FILM MODE	Colour	Standard / Dynamic / Nature / Smooth / Nostalgic / Vibrant
	Black and white	Standard / Dynamic / Smooth
	Others	My Film1 / My Film2 / Multi Film
PLAYBACK	Playback mode	Single / 12, 30-thumbnail display, Calendar display, Highlight Display Zoomed playback (1.6x max.), / image rotation (except for RAW) Slide show (duration is adjustable, also manual controllable), Playback of favourite pictures/ Resizing (selectable number of pixels) Trimming / Protection / Aspect conversion / DPOF print setting
PROTECTION / ERASE	Protection	Single / Multi or Cancel
	Erase	Single / Multi / All / Except FAVOURITE
DIRECT PRINT	Print	PictBridge (Print size, Layout, Date setting is selectable)
INTERFACE	Digital	USB 2.0 High Speed
	Digital video	MiniHDMI TypeC (1.3b corresponding)
	Analog video	NTSC/PAL Composite (Switched by menu) *Check the website of the Panasonic sales company in your country or region for details on the products that are available in your market.
OSD LANGUAGE	OSD language	English,German,French,Italian,Spanish, Polish, Czech, Hungarian, Russian, Chinese (Traditional), Chinese (Simplified), Dutch, Thai, Korean, Turkish, Portuguese, Arabic, Persian, Japanese,Finnish,Danish,Swedish
POWER	Battery	Li-ion Battery Pack (7.2V, 1250mAh) (Included) Battery Charger/AC Adapter (Input: 110-240V AC) (Optional DC cable (DMW-DCC3) is required)
	Battery life	CIPA Standard : Approx. 330 images[LCD] LVF : Approx. 350 images with LUMIX G VARIO 14-45mm/F3.5-5.6 ASPH./MEGA O.I.S.
DIMENSIONS / WEIGHT	Dimensions (W x H x D)	124 x 83.6 x 45.2mm
	Weight	Approx. 385g (Body only)
OPERATING CONDITIONS	Operating temperature	0°C to 40°C
	Operating humidity	10% to 80%
STANDARD ACCESSORIES	Software	PHOTOfunSTUDIO -viewer- 2.1 E SILKYPIX® Developer Studio 3.0 SE USB Driver
	Standard accessories	Battery Charger/AC Adapter, Battery Pack, Body Cap, Video Cable, USB Connection Cable, AC Cable, Shoulder Strap, CD-ROM

LUMIX G Lens Specifications

	LUMIX G VARIO 14-45mm / F3.5-5.6 ASPH. / MEGA O.I.S.
Lens Construction	12 elements in 9 groups (1 Aspherical lens)
Mount	Micro Four Thirds mount
Optical Image Stabilizer	YES
Focal Length	f=14mm to 45mm (35mm film camera equivalent 28mm to 90mm)
Aperture Type	7 diaphragm blades / Circular aperture diaphragm
Aperture	F3.5(Wide) - F5.6(Tele)
Minimum Aperture	F22
Closest Focusing Distance	0.30m at all focal lengths
Maximum magnification	Approx. 0.17x / 0.34x (35mm film camera equivalent)
Diagonal Angle of View	75° (W) – 27° (T)
Filter Size	Ð52mm / 2.05 in
Max. Diameter	Ð 60mm / 2.36 in
Overall Length	Approx. 60mm / 2.36 in (from the tip of the lens to the base side of the lens mount)
Weight	Approx. 195g / 6.88oz
Standard Accessories	Lens Cap, Lens Hood, Lens Rear Cap, Lens Storage Bag

	LUMIX G VARIO 45-200mm / F4.0-5.6 / MEGA O.I.S.
Lens Construction	16 elements in 13groups
Mount	Micro Four Thirds mount
Optical Image Stabilizer	YES
Focal Length	f=45mm to 200mm (35mm film camera equivalent 90mm to 400mm)
Aperture Type	7 diaphragm blades / Circular aperture diaphragm
Aperture	F4.0(Wide) - F5.6(Tele)
Minimum Aperture	F22
Closest Focusing Distance	1.0m at all focal lengths
Maximum magnification	Approx. 0.19x / 0.38x (35mm film camera equivalent)
Diagonal Angle of View	27° (W) – 6.2° (T)
Filter Size	Ð52mm / 2.05 in
Max. Diameter	Ð 70mm / 2.75 in
Overall Length	Approx. 100mm / 3.93 in (from the tip of the lens to the base side of the lens mount)
Weight	Approx. 380g / 13.4 oz
Standard Accessory	Lens Cap, Lens Hood, Lens Rear Cap, Lens Storage Bag

*Shooting conditions: 23°C with 50% humidity; LCD on**; Using a Panasonic SD Memory Card (512MB); Using the supplied battery; Using the supplied lens; Starting recording 30 seconds after the camera is turned on (When the optical image stabilizer is set to [Mode1]); Recording once every 30 seconds with full flash every second recording; Turning the camera off every 10 recordings.
**The number of recordable pictures decreases in Auto Power LCD mode or Power LCD mode. CIPA is an abbreviation of "Camera & Imaging Products Association".

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